

In the claims:

Please amend claims as follows:

1. - 83. (cancelled)

84. (currently amended) An electro-active lens comprising:

an electro-active material of a substantially constant thickness;
at least one alignment layer to align molecules of the electro-active material; and
a plurality of conductive electrode grids or arrays comprising a plurality of elements,
wherein each grid or array element is an electrode, wherein each electrode is isolated from other electrodes by an insulating material.

85. (cancelled)

86. (currently amended) The electro-active lens of claim [[85]] 84, wherein the insulating material is an oxide.

87. (original) The electro-active lens of claim 86, wherein the insulating material is silicon oxide.

88. (currently amended) The electro-active lens of claim [[85]] 84, wherein the insulating material is substantially transparent.

89. (original) The electro-active lens of claim 84, wherein the grids or arrays are substantially circular and concentric with respect to one another.

90. (original) The electro-active lens of claim 84, wherein the electro-active material contains a liquid crystal.

91. (currently amended) An electro-active lens comprising:

at least one layer of electro-active material having substantially constant thickness;
at least one alignment layer to align molecules of the electro-active material; and
at least one grid or array of conductive electrodes in electrical contact with the at least one layer of electro-active material, wherein each grid or array element is an electrode and
wherein the optical power of the electro-active lens is varied by altering an applied voltage from a power source to individual electrodes of the grid or array, the electrodes isolated from another by an insulating material.

92. (original) The electro-active lens of claim 91 wherein a change in refractive index of the electro-active material is at least 0.02 units per volt.

93. (cancelled)